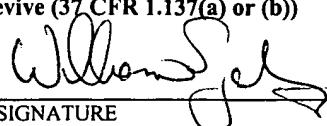


FORM PTO-1390 (REV 01-2003)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTORNEY'S DOCKET NUMBER	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		180577-00144 U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/501 388	
INTERNATIONAL APPLICATION NO. PCT/CA03/00016	INTERNATIONAL FILING DATE 10 January 2003	PRIORITY DATE CLAIMED 12 January 2002	
TITLE OF INVENTION HEAT EXCHANGE TUBULAR REACTOR WITH HEAT PIPE			
APPLICANT(S) FOR DO/EO/US Vinh N. Le			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 9(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). </p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. </p> <p>8. <input type="checkbox"/> An English translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) (NOT EXECUTED).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</p>			
Items 11. to 20 below concern document(s) or information included:			
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</p> <p>18. <input checked="" type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information:</p>			
EXPRESS MAIL MAILING LABEL NUMBER EV 216143807US DATE OF DEPOSIT July 12, 2004 <p>I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to:</p> <p>Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.</p> <p><i>Kim Wright</i> (Typed name of person mailing paper or fee)</p> <p><i>Kim Wright</i> (Signature of person mailing paper or fee)</p>			

U.S. APPLICATION NO. (if known, see 37 FR 1.5) 10/501388	INTERNATIONAL APPLICATION NO. PCT/CA03/00016	ATTORNEY'S DOCKET NUMBER 180577-00144	
<input checked="" type="checkbox"/> The following fees are submitted		CALCULATIONS BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO.....\$1080.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO.....\$920.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$770.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4).....\$730.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33 (1)-(4).....\$100.00	PTO USE ONLY
			920.00
ENTER APPROPRIATE BASIC FEE AMOUNT = <input type="text" value="\$"/>			
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).			
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total Claims	6-20 =	0	x \$18.00
Independent Claims	1 - 3 =	0	x \$86.00
MULTIPLE DEPENDENT CLAIMS(S) (if applicable)		+ \$290.00	
TOTAL OF ABOVE CALCULATIONS = <input type="text" value="\$920.00"/>			
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.			
SUBTOTAL = <input type="text" value="\$"/>			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).			
TOTAL NATIONAL FEE = <input type="text" value="\$"/>			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			
TOTAL FEES ENCLOSED = <input type="text" value="\$ 920.00"/>			
Amount to be refunded: <input type="text" value="\$"/> charged: <input type="text" value="\$"/>			
a. <input checked="" type="checkbox"/> A check in the amount of \$ 920.00 to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. 50-0540 in the amount of \$ <input type="text"/> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No.50-0540. A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.			
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.			
SEND ALL CORRESPONDENCE TO: <u>CUSTOMER NO. 31013</u> WILLIAM J. SPATZ KRAMER LEVIN NAFTALIS & FRANKEL LLP 919 Third Avenue New York, NY 10022 Date: July 12, 2004			
 SIGNATURE <u>William J. Spatz</u> NAME <u>30.108</u> REGISTRATION NUMBER			

10/501388

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Le, Vinh N.
SERIAL NO. : To be assigned
FILED : Herewith on July 12, 2004
FOR : **HEAT EXCHANGE
TUBULAR REACTOR WITH
HEAT PIPE**
GROUP ART UNIT : To be assigned

EXPRESS MAIL

Express No. EV216143807USDate: July 12, 2004

I hereby certify that this correspondence is
being deposited with the United States
Postal Service as first class mail in an
envelope addressed to: Commissioner for
Patents, P.O. Box 1450, Alexandria, VA
22313-1450.

Kim Wright

Name

Kim Wright

Signature

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Kindly file the annexed papers indicated below:

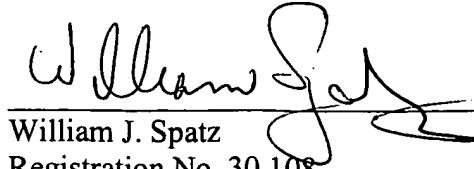
- Transmittal Letter to the U.S. Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371
- Preliminary Amendment
- Declaration/Power of Attorney of Inventor (**unsigned**)
- Information Disclosure Statement
- PTO 1449 and References
- Published International Application WO 03/057358
- Check for \$920.00
- Return Receipt Postcard

Respectfully submitted,

KRAMER LEVIN NAFTALIS & FRANKEL LLP
Attorney for Applicant

Dated: July 12, 2004

By:



William J. Spatz
Registration No. 30,108
(212) 715-9257